Volume Contents

Volume 36 Number 1 — January 2008

Editorial 1
A.D. Walmsley

Articles

The influence of two home-applied bleaching agents on enamel microhardness: An *in situ* study 2
E. Maia, L.N. Baratieri, M.A.C. de Andrada, S. Monteiro Jr. and L.C.C. Vieira

Effects of polar solvents and adhesive resin on the denaturation temperatures of demineralised dentine matrices 8
S.R. Armstrong, J.L.P. Jessop, E. Winn, F.R. Tay and D.H. Pashley

Mechanical properties of provisional crown and bridge materials: Chemical-curing *versus* dual-curing systems 15
M. Balkenhol, M.C. Mautner, P. Ferger and B. Wöstmann

A clinical study to evaluate the efficacy of a novel tray based tooth whitening system 21
N. Mohan, S. Westland, P. Brunton, R. Ellwood, I.A. Pretty and W. Luo

Comparison of dental health in sealed and non-sealed first permanent molars: 7 years follow-up in practice-based dentistry 27
K. Leskinen, S. Salo, J. Suni and M. Larmas

Effects of root dentin surface coating with all-in-one adhesive materials on biofilm adherence 33
L. Daneshmehr, K. Matin, T. Nikaido and J. Tagami

The repeatability of human dentine permeability measurement *in vitro* 42
T.O. Elgalaid, S.L. Creanor, S. Creanor and A.F. Hall

Influence of operator skill on microleakege of total-etch and self-etch bonding systems 49
L. Giachetti, D.S. Russo, C. Bambi, M. Nieri and F. Bertini

An investigation into most effective method of treating stained teeth: An in vitro study 54
C.E. Griffiths, J.R. Bailey, F.D. Jarad and C.C. Youngson

Edge-strength of flowable resin-composites 63
K. Baroudi, N. Silikas and D.C. Watts

Influence of different endodontic filling materials on root fracture susceptibility 69
F.C. Ribeiro, A.E. Souza-Gabriel, M.A. Marchesan, E. Alfredo, Y.T.C. Silva-Sousa and M.D. Sousa-Neto

Change in surface hardness of enamel by a cola drink and a CPP-ACP paste 74
D. Tantbirojn, A. Huang, M.D. Ericson and S. Poolthong

Bonding durability of HEMA-free and HEMA-containing one-step adhesives to dentine surrounded by bonded enamel 80
S. Torkabadi, M. Nakajima, M. Ikeda, R.M. Foxton and J. Tagami

The effect of two luting agents, pretreatment of the post, and pretreatment of the canal dentin on the retention of fiber-reinforced composite posts 87
B. Ohlmann, F. Fickenscher, J. Dreyhaupt, P. Rammelsberg, O. Gabbert and M. Schmitter

Acknowledgement to Referees 93

Volume 36 Number 2 — February 2008

Reviews

Bacterial resistance and the dental professionals' role to halt the problem 95
M. Al-Haroni

The application of ozone in dentistry: A systematic review of literature 104
A. Azarpazhooh and H. Limeback

Articles

Control of brushing variables for the *in vitro* assessment of toothpaste abrasivity using a novel laboratory model 117
J. Parry, E. Harrington, G.D. Rees, R. McNab and A.J. Smith

Bonding of brackets using a caries-protective adhesive patch 125
P.R. Schmidlin, M. Schätzle, J. Fischer and T. Attin

Analysis of surface roughness and microleakage of fissure sealants following organic debris removal with Carisolv 130
Y. Yamada, M. Hossain, Y. Shimizu, Y. Kimura, Y. Masuda, Y. Nakamura and K. Matsumoto

Bonding of autopolymerizing acrylic resins to magnetic stainless steel alloys using metal conditioner 138
H. Shimizu, F. Tsue, Z.-X. Chen, T. Kawaguchi and Y. Takahashi

Relationship between the color of carious dentin with varying lesion activity, and bacterial detection 143
Y. Iwami, N. Hayashi, F. Takeshige and S. Ebisu

***In situ* effect of an erosive challenge on different restorative materials and on enamel adjacent to these materials** 152
D. Rios, H.M. Honório, L.F. Francisconi, A.C. Magalhães, M.A. de Andrade Moreira Machado and M.A.R. Buzalaf

Effect of a 4% titanium tetrafluoride (TiF_4) varnish on demineralisation and remineralisation of bovine enamel *in vitro* 158
A.C. Magalhães, L.P. Comar, D. Rios, A.C.B. Delbem and M.A.R. Buzalaf

Resistance of ten contemporary adhesives to resin-dentine bond degradation 163
R. Osorio, J. Pisani-Proenca, M.C.G. Erhardt, E. Osorio, F.S. Aguilera, F.R. Tay and M. Toledano

Volume 36 Number 3 — March 2008

Synthesis of phosphate monomers and bonding to dentin: Esterification methods and use of phosphorus pentoxide 171
F.A. Ogliari, E. de Oliveira da Silva, G. da Silveira Lima, F.C. Madruga, S. Henn, M. Bueno, M.A. Ceschi, C.L. Petzhold and E. Piva

Effects of oxalate on dentin bond after 3-month simulated pulpal pressure 178
V. Vachiramon, M.A. Vargas, D.H. Pashley, F.R. Tay, S. Geraldeli, F. Qian and S.R. Armstrong

Water uptake and strength characteristics of a nanofilled resin-based composite 186
A.R. Curtis, A.C. Shortall, P.M. Marquis and W.M. Palin

Multi-factorial analysis of a cusp-replacing adhesive premolar restoration: A finite element study 194
C.-L. Lin, Y.-H. Chang and P.-R. Liu

Morphological study of fiber-reinforced post-bonding system-root dentin interface by evaluation of two bonding systems 204
E. Esclassan Noirrit, G. Grégoire and M. Cournot

An *in vitro* investigation of the effect and retention of bioactive glass air-abrasive on sound and carious dentine 214
G. Paolinelis, A. Banerjee and T.F. Watson

Change of shade by light polymerization in a resin cement polymerized beneath a ceramic restoration 219
H.C. Kucukesmen, A. Usumez, N. Ozturk and E. Eroglu

An investigation of the effect of powder reservoir volume on the consistency of alumina powder flow rates in dental air-abrasion devices 224
A. Banerjee, M. Uddin, G. Paolinelis and T.F. Watson

Bond strength and ultimate tensile strength of resin composite filled into dentine cavity; effect of bulk and incremental filling technique 228
M.M. Nayif, M. Nakajima, R.M. Foxton and J. Tagami

Volume 36 Number 4 — April 2008

An evaluation of luting agent application technique effect on fibre post retention 235
C. D'Arcangelo, M. D'Amario, M. Vadini, S. Zazzeroni, F. De Angelis and S. Caputi

Influence of human dentine on the antibacterial activity of self-etching adhesive systems against cariogenic bacteria 241
J.O. Gondim, C. Duque, J. Hebling and E.M.A. Giro

Performance of techniques used for re-attachment of endodontically treated crown fractured teeth 249
A.D. Loguercio, G. Leski, D. Sossmeier, A. Kraul, M. Oda, R.T. Patzlaff and A. Reis

Temporomandibular joint click sound and magnetic resonance-depicted disk position: Which relationship? 256
D. Manfredini, D. Basso, L. Salmaso and L. Guarda-Nardini

Effects of bleaching gels on the surface microhardness of tooth-colored restorative materials *in situ* 261
H. Yu, Q. Li, M. Hussain and Y. Wang

Saliva variations in gastro-oesophageal reflux disease 268
G. Campisi, L. Lo Russo, C. Di Liberto, F. Di Nicola, D. Butera, S. Vigneri, D. Compilato, L. Lo Muzio and O. Di Fede

Characterization of oral films formed in the presence of a CPP–ACP agent: An *in situ* study 272
C. Rahiotis, G. Vougiouklakis and G. Eliades

Bond strength of glass-ceramics on the fluorosed enamel surfaces 281
M. Toman, E. Cal, M. Türkün and F. Ertuğrul

Influence of endodontic posts on the fracture behavior of crowned premolars with class II cavities 287
F.P. Nothdurft, E. Seidel, F. Gebhart, M. Naumann, P.J. Motter and P.R. Pospiech

An in vivo investigation of associations between saliva properties, caries prevalence and potential lesion activity in an adult UK population 294
S. Varma, A. Banerjee and D. Bartlett

Volume 36 Number 5 — May 2008

Articles

Sex differences in denture satisfaction 301
S. Pan, M. Awad, J.M. Thomason, E. Dufresne, T. Kobayashi, S. Kimoto, S.D. Wollin and J.S. Feine

Can the durability of one-step self-etch adhesives be improved by double application or by an extra layer of hydrophobic resin? 309
A. Reis, M. Albuquerque, M. Pegoraro, G. Mattei, J.R. de Oliveira Bauer, R.H.M. Grande, C.A. Klein-Junior, R. Baumhardt-Neto and A.D. Loguercio

Flexural strength of veneering ceramics for zirconia 316
J. Fischer, B. Stawarczyk and C.H.F. Hämmerle

Marginal leakage in direct and indirect composite resin restorations in primary teeth: An in vitro study 322
M.C. Ferreira and R.S. Vieira

Shear strength evaluation of composite-composite resin associations 326
J.C.R. Ribeiro, P.N. Gomes, M.R. Moysés, S.C. Dias, L.J. Pereira and J.G.R. Ribeiro

Mucotoxicity of dental composite resins on a tissue-engineered human oral mucosal model 331
K. Moharamzadeh, I.M. Brook, A.M. Scutt, M.H. Thornhill and R. Van Noort

Changes in color and color coordinates of an indirect resin composite during curing cycle 337
S.-H. Kim and Y.-K. Lee

Gender differences in dentists' working practices and job satisfaction 343
K.M.S. Ayers, W.M. Thomson, A.M. Rich and J.T. Newton

Mucoadhesion, hydration and rheological properties of non-aqueous delivery systems (NADS) for the oral cavity 351
M.A. Zaman, G.P. Martin and G.D. Rees

The protective nature of pellicle towards toothpaste abrasion on enamel and dentine 360
A. Joiner, A. Schwarz, C.J. Philpotts, T.F. Cox, K. Huber and M. Hannig

Effect of compounds of *Galla chinensis* and their combined effects with fluoride on remineralization of initial enamel lesion in vitro 369
L. Cheng, J. Li, Y. Hao and X. Zhou

Short Communication

Dental students' knowledge of human immunodeficiency virus 374
Y.O. Ajayi and E.O. Ajayi

Volume 36 Number 6 — June 2008

Review

A paradigm shift in endodontic management of immature teeth: Conservation of stem cells for regeneration 379
G.T.-J. Huang

Articles

Microhardness of dentine in primary teeth after topical fluoride applications 387
C.H. Chu and E.C.M. Lo

Comparative study in desensitizing efficacy using the GaAlAs laser and dentin bonding agent 392
T. Tengrungsun and W. Sangkla

Artificial enamel dental caries treated with different topical fluoride regimes: An *in situ* study 396
J.J. Jardim, M.A. Pagot and M. Maltz

All-in-one self-etch model adhesives: HEMA-free and without phase separation 402
M. Furukawa, Y. Shigetani, W.J. Finger, M. Hoffmann, M. Kanehira, T. Endo and M. Komatsu

Bone stress and interfacial sliding analysis of implant designs on an immediately loaded maxillary implant: A non-linear finite element study 409
H.-L. Huang, J.-T. Hsu, L.-J. Fuh, M.-G. Tu, C.-C. Ko and Y.-W. Shen

Effect of curing mode on the polymerization characteristics of dual-cured resin cement systems 418
C.A.G. Arrais, F.A. Rueggeberg, J.L. Waller, M.F. de Goes and M. Giannini

An investigation of factors influencing patients' satisfaction with new complete dentures using structural equation modelling 427
M.R. Fenlon and M. Sherriff

Routine oral examinations in primary care: Which predictors determine what is done? A prospective clinical case recording study 435
T.G. Mettes, W.J.M. van der Sanden, H.G. Mokkink, M. Wensing, R.P.T.M. Grol and A.J.M. Plasschaert

The fracture behavior of premolar teeth with class II cavities restored by both direct composite restorations and endodontic post systems 444
F.P. Nothdurft, E. Seidel, F. Gebhart, M. Naumann, P.J. Motter and P.R. Pospiech

Nanoparticle-reinforced resin-based dental composites 450
Y. Xia, F. Zhang, H. Xie and N. Gu

Long-term dimensional stability and reproduction of surface detail of four polyvinyl siloxane duplicating materials 456
R. Pant, A.S. Juszczyk, R.K.F. Clark and D.R. Radford

Volume 36 Number 7 July 2008

Reviews

Nonlinear finite element analyses: Advances and challenges in dental applications 463
N. Wakabayashi, M. Ona, T. Suzuki and Y. Igarashi

Academic dentistry 472
V.E. Rushton and K. Horner

Articles

Prevalence, intensity and nature of bacteraemia after toothbrushing 481
V.S. Lucas, G. Gafan, S. Dewhurst and G.J. Roberts

Vibration characteristics of dental high-speed turbines and speed-increasing handpieces 488
R.L. Poole, S.C. Lea, J.E. Dyson, A.C.C. Shortall and A.D. Walmsley

Psychosocial characteristics of adults who experience difficulties with retching 494
J.M. Hainsworth, K.B. Hill, A. Rice and K.J. Fairbrother

Corrosion behaviour of Ti-15Mo alloy for dental implant applications 500
S. Kumar and T.S.N.S. Narayanan

Effect of different retraction and impression techniques on the marginal fit of crowns 508
B. Wöstmann, P. Rehmann, D. Trost and M. Balkenhol

Fracture resistance and failure patterns of endodontically treated mandibular molars with and without glass fiber post in combination with a zirconia-ceramic crown 513
Z. Salameh, H.F. Ounsi, M.N. Aboushelib, W. Sadig and M. Ferrari

Effects of light exposure time on composite resin hardness after root reinforcement using translucent fibre post 520
C. da Silveira Teixeira, Y.C. Silva-Sousa and M.D. da Sousa-Neto

Temperature variation at the external root surface during 980-nm diode laser irradiation in the root canal 529
E. Alfredo, M.A. Marchesan, M.D. Sousa-Neto, A. Brugnera-Júnior and Y.T.C. Silva-Sousa

Oral malodor reduction by a palatal mucoadhesive tablet containing herbal formulation 535
N. Sterer, S. Nuas, B. Mizrahi, C. Goldenberg, E.I. Weiss, A. Domb and M.P. Davidi

Effects of Cistus-tea on bacterial colonization and enzyme activities of the *in situ* pellicle 540
C. Hannig, B. Spitzmüller, A. Al-Ahmad and M. Hannig

3-D finite element simulation for ultrasonic propagation in tooth 546
X. Sun, E.A. Witzel, H. Bian and S. Kang

The effect of bleaching, varying the shade or thickness of composite veneers on final colour: An in vitro study 554
F.D. Jarad, C.E. Griffiths, M. Jaffri, A.A. Adeyemi and C.C. Youngson

Short Communication

Incremental layers bonding of silorane composite: The initial bonding properties 560
A. Tezvergil-Mutluay, L.V.J. Lassila and P.K. Vallittu

Volume 36 Number 8 August 2008

Articles

Calcium silicate coating derived from Portland cement as treatment for hypersensitive dentine 565
M.G. Gandolfi, F. Silvia, P.D. H, G. Gasparotto and P. Carlo

Radiopaque dental adhesives: Dispersion of flame-made Ta_2O_5/SiO_2 nanoparticles in methacrylic matrices 579
H. Schulz, B. Schimmoeller, S.E. Pratsinis, U. Salz and T. Bock

Measurement of thermophysical properties of human dentin: Effect of open porosity 588
M.F. de Magalhães, R.A.N. Ferreira, P.A. Grossi and R.M. de Andrade

Effects of primers containing sulfur and phosphate monomers on bonding type IV gold alloy 595
Y. Taira and K. Kamada

A quantitative approach to the effectiveness of ozone against microbiota organisms colonizing toothbrushes 600
E. Bezirtzoglou, S.-M. Cretoiu, M. Moldoveanu, A. Alexopoulos, V. Lazar and M. Nakou

pH changes of self-etching primers mixed with powdered dentine 606
T. Maeda, K. Yamaguchi, T. Takamizawa, A. Rikuta, K. Tsubota, S. Ando and M. Miyazaki

Four-year water degradation of a total-etch and two self-etching adhesives bonded to dentin 611
A.I. Abdalla and A.J. Feilzer

Evaporating solvents with a warm air-stream: Effects on adhesive layer properties and resin-dentin bond strengths 618
C.A. Klein-Júnior, C. Zander-Grande, R. Amaral, R. Stanislawczuk, E.J. Garcia, R. Baumhardt-Neto, M.M. Meier, A.D. Loguercio and A. Reis

Combining structural-thermal coupled field FE analysis and the Taguchi method to evaluate the relative contributions of multi-factors in a premolar adhesive MOD restoration 626
C.-L. Lin, Y.-H. Chang and Y.-F. Lin

Comparison of translucency between indirect and direct resin composites 637
S.-T. Woo, B. Yu, J.-S. Ahn and Y.-K. Lee

Effects of halogen light irradiation variables (tip diameter, irradiance, irradiation protocol) on flexural strength properties of resin-based composites 643
G.S. Bhamra and G.J.P. Fleming

Manual and electronic probing of the periodontal attachment level in untreated periodontitis: A systematic review 651
C.M. Silva-Boghossian, C.S.F. Amaral, L.C. Maia, R.R. Luiz and A.P.V. Colombo

Volume 36 Number 9 September 2008

Review

Can subepithelial connective tissue grafts be considered the gold standard procedure in the treatment of Miller Class I and II recession-type defects? 659
L. Chambrone, D. Chambrone, F.E. Pustiglioni, L.A. Chambrone and L.A. Lima

Articles

Interfacial evaluation of experimentally weakened roots restored with adhesive materials and fibre posts: An SEM analysis 672
C. da Silveira Teixeira, M.C. Santos Felippe, Y.T.C. Silva-Sousa and M.D. de Sousa-Neto

Comparison of the hybrid layer formed by Silorane adhesive, one-step self-etch and etch and rinse systems using confocal micro-Raman spectroscopy and SEM 683
A. Santini and V. Miletic

All-ceramic inlay-retained fixed partial dentures: Preliminary results from a clinical study 692
B. Ohlmann, P. Rammelsberg, M. Schmitter, S. Schwarz and O. Gabbert

Effect of fluoride iontophoresis on the microtensile bond strength between dentin and two adhesive systems 697
L.-J. Chen, Q.-F. Meng, Y.-M. Chen, R.J. Smales and K.H.-K. Yip

Influence of artificial saliva on abrasive wear and microhardness of dental composites filled with nanoparticles 703
C.D. Mayworm, S.S. Camargo Jr. and F.L. Bastian

The impact of idealised facial images on satisfaction with facial appearance: Comparing 'ideal' and 'average' faces 711
D.M. Williams, R. Bentley, M.T. Cobourne, A. Gibilaro, S. Good, C. Huppa, N.S. Matthews, L. O'Higgins, S. Patel and J.T. Newton

Effect of fluoride containing bleaching agents on enamel surface properties 718
H.-P. Chen, C.-H. Chang, J.-K. Liu, S.-F. Chuang and J.-Y. Yang

Placebo-controlled trial evaluating safety with 12-months continuous use of 6% hydrogen peroxide whitening strips 726
S. Farrell, M.L. Barker, D.A. McMillan and R.W. Gerlach

Monitoring dental erosion by colour measurement: An *in vitro* study 731
J.B. Krikken, J.R. Zijp and M.C.D.N.J.M. Huysmans

Effect of mixing methods on the physical properties of dental stones 736
S.S. Azer, R.E. Kerby and L.A. Knobloch

NaOCl effects on primary and permanent pulp chamber dentin 745
A.F.S. Borges, R.A. Bittar, F.M. Pascon, L.C. Sobrinho, A.A. Martin and R.M. Puppin Rontani

Split mouth randomized controlled clinical trial of beveled cavity preparations in primary molars: an 18-Month follow up 754
C.A.G.R. Oliveira, P.F. Dias, M.P.A. dos Santos and L.C. Maia

Volume 36 Number 10 October 2008

Review

Non-carious cervical tooth surface loss: A literature review 759
I. Wood, Z. Jawad, C. Paisley and P. Brunton

Articles

Bonding effectiveness and interfacial characterization of a HEMA/TEGDMA-free three-step etch&rinse adhesive 767
A. Mine, J. De Munck, K.L. Van Landuyt, A. Poitevin, T. Kuboki, Y. Yoshida, K. Suzuki, P. Lambrechts and B. Van Meerbeek

Correlations of noncarious cervical lesions and occlusal factors determined by using pressure-detecting sheet 774
J. Takehara, T. Takano, R. Akhter and M. Morita

Effect of antioxidant treatment on bond strength of a luting resin to bleached enamel 780
B. Gökçe, M.E. Çömlekoğlu, B. Özpinar, M. Türkün and A.D. Kaya

Enamel: From brittle to ductile like tribological response 786
G. Guidoni, M. Swain and I. Jäger

The whitening effect of enzymatic bleaching on tetracycline 795
I. Gimeno, P. Riutord, P. Tauler, J.A. Tur and A. Pons

Retention of fiber posts cemented at different time intervals in canals obturated using an epoxy resin sealer 801
M. Vano, A.H. Cury, C. Goracci, N. Chieffi, M. Gabriele, F.R. Tay and M. Ferrari

Influence of notch geometry and interface on stress concentration and distribution in micro-tensile bond strength specimens 808
A. de A. Neves, E. Coutinho, M.V. Cardoso, S. Jaecques, P. Lambrechts, J.V. Sloten, H. Van Oosterwyck and B. Van Meerbeek

Influence of denture improvement on the nutritional status and quality of life of geriatric patients 816
B. Wöstmann, K. Michel, B. Brinkert, A. Melchheier-Weskott, P. Rehmann and M. Balkenhol

Evaluation of bond strength of various margin ceramics to a zirconia ceramic 822
M.E. Çömlekoğlu, M. Dündar, M. Özcan, M.A. Güngör, B. Gökçe and C. Artunç

The effect of proximal contour on marginal ridge fracture of Class II composite resin restorations 828
B.A.C. Loomans, F.J.M. Roeters, N.J.M. Opdam and R.H. Kuijs

The influence of 30-day-old *Streptococcus mutans* biofilm on the surface of esthetic restorative materials—An *in vitro* study 833
S.B.P. Fúcio, F.G. Carvalho, L.C. Sobrinho, M.A.C. Sinhoreti and R.M. Puppin-Rontani

Differences in color, translucency and fluorescence between flowable and universal resin composites 840
B. Yu and Y.-K. Lee

A randomized controlled clinical trial of a HEMA-free all-in-one adhesive in non-carious cervical lesions at 1 year 847
K.L. Van Landuyt, M. Peumans, S. Fieuws, J. De Munck, M.V. Cardoso, R.B. Ermis, P. Lambrechts and B. Van Meerbeek

Volume 36 Number 11 November 2008

Articles

Children's dental anxiety in the United Kingdom in 2003 857
N.M. Nuttall, A. Gilbert and J. Morris

Effect of surface condition and storage time on the repairability of temporary crown and fixed partial denture materials 861
M. Balkenhol, M. Meyer, K. Michel, P. Ferger and B. Wöstmann

Fracture resistance of amalgam/glass-polyalkenoate open sandwich Class II restorations: An in vitro study 873
H.W. Roberts, K.S. Vandewalle, D.G. Charlton and D.W. Berzins

A double blind randomized clinical trial of at-home tooth bleaching using two carbamide peroxide concentrations: 6-month follow-up 878
S.S. Meireles, S.S. Heckmann, I.S. Santos, A. Della Bona and F.F. Demarco

SEM and microleakage evaluation of the marginal integrity of two types of class V restorations with or without the use of a light-curable coating material and of polishing 885
E. Magni, L. Zhang, R. Hickel, M. Bossù, A. Polimeni and M. Ferrari

Microbiological impressions of teeth, saliva and dietary fibre can predict caries activity 892
M.M. Coogan, J.M. MacKeown, J.S. Galpin and L.P. Fatti

***In vitro* remineralization effects of grape seed extract on artificial root caries** 900
Q. Xie, A.K. Bedran-Russo and C.D. Wu

Beneficial effects of hydroxyapatite on enamel subjected to 30% hydrogen peroxide 907
T. Jiang, X. Ma, Z. Wang, H. Tong, J. Hu and Y. Wang

Relationship between laser fluorescence and enamel hypomineralisation 915
R.A. Farah, B.K. Drummond, M.V. Swain and S. Williams

Micro-tensile bond strength to bovine sclerotic dentine: Influence of surface treatment 922
M.A. Camargo, M.I. Roda, M.M. Marques and A.A. de Cara

Postobturation pain and associated factors in adolescent patients undergoing one- and two-visit root canal treatment 928
P.A. Risso, A.J.L.A. Cunha, M.C.P. Araujo and R.R. Luiz

Coronal resistance to fracture of endodontically treated teeth submitted to light-activated bleaching 935
P.d.O. da Silva Pobbe, R. Viapiana, A.E. Souza-Gabriel, M.A. Marchesan, M.D. Sousa-Neto, Y.T.C. Silva-Sousa and R.G. Silva

Surface treatment with ascorbic acid and ferric chloride improves the micro-tensile bond strength of 4-META/MMA-TBB resin to dentin 940
K. Soeno, Y. Taira, R. Jimbo and T. Sawase

Colour-stability and gloss-retention of silorane and dimethacrylate composites with accelerated aging 945
A.Y. Furuse, K. Gordon, F.P. Rodrigues, N. Silikas and D.C. Watts

Dentin tubule numerical density variations below the CEJ 953
T. Komabayashi, G. Nonomura, L.G. Watanabe, G.W. Marshall Jr. and S.J. Marshall

Change in elastic modulus of bovine dentine with exposure to a calcium hydroxide paste 959
R. Kawamoto, H. Kurokawa, C. Takubo, Y. Shimamura, T. Yoshida and M. Miyazaki

Short Communication

The enhancement effect of three sugar alcohols on the fungicidal effect of benzethonium chloride toward *Candida albicans* 965
T. Ichikawa, Y. Yano, Y. Fujita, T. Kashiwabara and K. Nagao

Volume 36 Number 12 December 2008

Articles

Effect of surface treatments on the tensile bond strength of repaired water-aged anterior restorative micro-fine hybrid resin composite 969
A.S. Fawzy, F.S. El-Askary and M.A. Amer

Influence of saliva substitute films on initial *Streptococcus mutans* adhesion to enamel and dental substrata 977
S. Hahnel, M. Rosentritt, G. Handel and R. Bürgers

Restoration of occlusal and proximal contacts by a single molar crown improves the smoothness of the masticatory movement 984
T. Watamoto, H. Egusa, T. Mizumori, K. Yashiro, K. Takada and H. Yatani

Influence of chlorine dioxide on cell death and cell cycle of human gingival fibroblasts 993
R. Nishikiori, Y. Nomura, M. Sawajiri, K. Masuki, I. Hirata and M. Okazaki

Effect of *Galla chinensis* extract and chemical fractions on demineralization of bovine enamel *in vitro* 999
L. Zou, L. Zhang, J. Li, Y. Hao, L. Cheng, W. Li and X. Zhou

Monitoring acid-demineralization of human dentine by electrochemical impedance spectroscopy (EIS) 1005
Z. Xu, K.G. Neoh and A. Kishen

Dentine bonding after CPP-ACP paste treatment with and without conditioning 1013
O.A. Adebayo, M.F. Burrow and M.J. Tyas

The effect of several dentin desensitizers on shear bond strength of adhesive resin luting cement using self-etching primer 1025
J.-B. Huh, J.-H. Kim, M.-K. Chung, H.-y. Lee, Y.-G. Choi and J.-S. Shim

Clinical performance of a new laser fluorescence device for detection of occlusal caries lesions in permanent molars 1033
K.C. Huth, K.W. Neuhaus, M. Gygax, K. Bücher, A. Crispin, E. Paschos, R. Hickel and A. Lussi

Clinical evaluation of polypropylene glycol-based caries detecting dyes for primary and permanent carious dentin 1041
Y. Hosoya, T. Taguchi, S. Arita and F.R. Tay

Approach for valuating the significance of laboratory simulation 1048
M. Rosentritt, G. Siavikis, M. Behr, C. Kolbeck and G. Handel

Shade distribution of indirect resin composites compared with a shade guide 1054
B.-J. Kim, B. Yu and Y.-K. Lee

Influence of surface layer removal of shade guide tabs on the measured color by spectrophotometer and spectroradiometer 1061
J.-C. Kim, B. Yu and Y.-K. Lee

Dentin treatment with MMPs inhibitors does not alter bond strengths to caries-affected dentin 1068
M.C.G. Erhardt, R. Osorio and M. Toledano

Practice-based study of the cost-effectiveness of fissure sealants in Finland 1074
K. Leskinen, S. Salo, J. Suni and M. Larmas

Volume Contents and Authors Index I

Author Index

Abdalla, A.I. 611
Aboushelib, M.N. 513
Adebayo, O.A. 1013
Adeyemi, A.A. 554
Aguilera, F.S. 163
Ahn, J.-S. 637
Ajayi, E.O. 374
Ajayi, Y.O. 374
Akhter, R. 774
Al-Ahmad, A. 540
Albuquerque, M. 309
Alexopoulos, A. 600
Alfredo, E. 69, 529
Al-Haroni, M. 95
Amaral, C.S.F. 651
Amaral, R. 618
Amer, M.A. 969
Ando, S. 606
Andrada, M.A.C.d. 2
Andrade, R.M.d. 588
Araujo, M.C.P. 928
Arita, S. 1041
Armstrong, S.R. 8, 178
Arrais, C.A.G. 418
Artunç, C. 822
Attin, T. 125
Awad, M. 301
Ayers, K.M.S. 343
Azarpazhooh, A. 104
Azer, S.S. 736

Bailey, J.R. 54
Balkenhol, M. 15, 508, 816, 861
Bambi, C. 49
Banerjee, A. 214, 224, 294
Baratieri, L.N. 2
Barker, M.L. 726
Baroudi, K. 63
Bartlett, D. 294
Basso, D. 256
Bastian, F.L. 703
Bauer, J.R.d.O. 309
Baumhardt-Neto, R. 309, 618
Bedran-Russo, A.K. 900
Behr, M. 1048
Bentley, R. 711
Bertini, F. 49
Berzins, D.W. 873
Bezirtzoglou, E. 600
Bhamra, G.S. 643
Bian, H. 546
Bittar, R.A. 745
Bock, T. 579
Borges, A.F.S. 745
Bossù, M. 885
Brinkert, B. 816
Brook, I.M. 331
Brugnera-Júnior, A. 529
Brunton, P. 21, 759
Bücher, K. 1033
Bueno, M. 171
Bürgers, R. 977
Burrow, M.F. 1013
Butera, D. 268
Buzalaf, M.A.R. 152, 158

Cal, E. 281
Camargo Jr., S.S. 703
Camargo, M.A. 922
Campisi, G. 268
Caputi, S. 235
Cardoso, M.V. 808
Carlo, P. 565
Carvalho, F.G. 833
Ceschi, M.A. 171
Chambrone, D. 659
Chambrone, L.A. 659
Chambrone, L. 659
Chang, C.-H. 718
Chang, Y.-H. 194, 626
Charlton, D.G. 873
Chen, H.-P. 718
Chen, L.-J. 697
Chen, Y.-M. 697
Chen, Z.-X. 138
Cheng, L. 369, 999
Chieffi, N. 801
Choi, Y.-G. 1025
Chu, C.H. 387
Chuang, S.-F. 718
Chung, M.-K. 1025
Clark, R.K.F. 456
Cobourne, M.T. 711
Colombo, A.P.V. 651
Comar, L.P. 158
Çömlekoğlu, M.E. 780, 822
Compilato, D. 268
Coogan, M.M. 892
Cournot, M. 204
Coutinho, E. 808
Cox, T.F. 360
Creanor, S. 42
Creanor, S.L. 42
Cretoiu, S.-M. 600
Crispin, A. 1033
Cunha, A.J.L.A. 928
Curtis, A.R. 186
Cury, A.H. 801

da Silva, E.d.O. 171
da Silveira Teixeira, C. 672
D'Amario, M. 235
D'Arcangelo, C. 235
Daneshmehr, L. 33
Davidi, M.P. 535
De Angelis, F. 235
de Cara, A.A. 922
de Goes, M.F. 418
De Munck, J. 767, 847
de Sousa-Neto, M.D. 672
Delbem, A.C.B. 158
Della Bona, A. 878

Demarco, F.F. 878
Dewhurst, S. 481
Di Fede, O. 268
Di Liberto, C. 268
Di Nicola, F. 268
Dias, P.F. 754
Dias, S.C. 326
Domb, A. 535
dos Santos, M.P.A. 754
Dreyhaupt, J. 87
Drummond, B.K. 915
Dufresne, E. 301
Dündar, M. 822
Duque, C. 241
Dyson, J.E. 488

Ebisu, S. 143
Egusa, H. 984
El-Askary, F.S. 969
Elgalaid, T.O. 42
Eliades, G. 272
Ellwood, R. 21
Endo, T. 402
Erhardt, M.C.G. 163, 1068
Ericson, M.D. 74
Ermis, R.B. 847
Eroglu, E. 219
Ertuğrul, F. 281
Esclassan Noirrit, E. 204

Fairbrother, K.J. 494
Farah, R.A. 915
Farrell, S. 726
Fatti, L.P. 892
Fawzy, A.S. 969
Feilzer, A.J. 611
Feine, J.S. 301
Fenlon, M.R. 427
Ferger, P. 15, 861
Ferrari, M. 513, 801, 885
Ferreira, M.C. 322
Ferreira, R.A.N. 588
Fickenscher, F. 87
Fieuws, S. 847
Finger, W.J. 402
Fischer, J. 125, 316
Fleming, G.J.P. 643
Foxton, R.M. 80, 228
Francisconi, L.F. 152
Fúcio, S.B.P. 833
Fuh, L.-J. 409
Fujita, Y. 965
Furukawa, M. 402
Furuse, A.Y. 945

Gabbert, O. 87, 692
Gabriele, M. 801
Gafan, G. 481
Galpin, J.S. 892
Gandolfi, M.G. 565
Garcia, E.J. 618
Gasparotto, G. 565
Gebhart, F. 287, 444
Geraldeli, S. 178
Gerlach, R.W. 726
Giachetti, L. 49

Giannini, M. 418
Gibilaro, A. 711
Gilbert, A. 857
Gimeno, I. 795
Giro, E.M.A. 241
Gökçe, B. 780, 822
Goldenberg, C. 535
Gomes, P.N. 326
Gondim, J.O. 241
Good, S. 711
Goracci, C. 801
Gordon, K. 945
Grande, R.H.M. 309
Grégoire, G. 204
Griffiths, C.E. 54, 554
Grol, R.P.T.M. 435
Grossi, P.A. 588
Gu, N. 450
Guarda-Nardini, L. 256
Guidoni, G. 786
Güngör, M.A. 822
Gygax, M. 1033

H, P.D. 565
Hahnel, S. 977
Hainsworth, J.M. 494
Hall, A.F. 42
Hämmerle, C.H.F. 316
Handel, G. 977, 1048
Hannig, C. 540
Hannig, M. 360, 540
Hao, Y. 369, 999
Harrington, E. 117
Hayashi, N. 143
Hebling, J. 241
Heckmann, S.S. 878
Henn, S. 171
Hickel, R. 885, 1033
Hill, K.B. 494
Hirata, I. 993
Hoffmann, M. 402
Honório, H.M. 152
Horner, K. 472
Hosoya, Y. 1041
Hossain, M. 130
Hsu, J.-T. 409
Hu, J. 907
Huang, A. 74
Huang, G.T.-J. 379
Huang, H.-L. 409
Huber, K. 360
Huh, J.-B. 1025
Huppa, C. 711
Hussain, M. 261
Huth, K.C. 1033
Huysmans, M.C.D.N.J.M. 731

Ichikawa, T. 965
Igarashi, Y. 463
Ikeda, M. 80
Iwami, Y. 143

Jaecques, S. 808
Jaffri, M. 554
Jäger, I. 786
Jarad, F.D. 54, 554

Jardim, J.J. 396
Jawad, Z. 759
Jessop, J.L.P. 8
Jiang, T. 907
Jimbo, R. 940
Joiner, A. 360
Juszczyk, A.S. 456

Kamada, K. 595
Kanehira, M. 402
Kang, S. 546
Kashiwabara, T. 965
Kawaguchi, T. 138
Kawamoto, R. 959
Kaya, A.D. 780
Kerby, R.E. 736
Kim, B.-J. 1054
Kim, J.-C. 1061
Kim, J.-H. 1025
Kim, S.-H. 337
Kimoto, S. 301
Kimura, Y. 130
Kishen, A. 1005
Klein-Junior, C.A. 309
Klein-Júnior, C.A. 618
Knobloch, L.A. 736
Ko, C.-C. 409
Kobayashi, T. 301
Kolbeck, C. 1048
Komabayashi, T. 953
Komatsu, M. 402
Kraul, A. 249
Krikken, J.B. 731
Kuboki, T. 767
Kucukesmen, H.C. 219
Kuijs, R.H. 828
Kumar, S. 500
Kurokawa, H. 959

Lambrechts, P. 767, 808, 847
Larmas, M. 27, 1074
Lassila, L.V.J. 560
Lazar, V. 600
Lea, S.C. 488
Lee, H.-y. 1025
Lee, Y.-K. 337, 637, 840, 1054, 1061
Leski, G. 249
Leskinen, K. 27, 1074
Li, J. 369, 999
Li, Q. 261
Li, W. 999
Lima, G.d.S. 171
Lima, L.A. 659
Limeback, H. 104
Lin, C.-L. 194, 626
Lin, Y.-F. 626
Liu, J.-K. 718
Liu, P.-R. 194
Lo Muzio, L. 268
Lo Russo, L. 268
Lo, E.C.M. 387
Loguercio, A.D. 249, 309, 618
Loomans, B.A.C. 828
Lucas, V.S. 481
Luiz, R.R. 651, 928
Luo, W. 21
Lussi, A. 1033

M.V. Cardoso 847
Ma, X. 907
Machado, M.A.d.A.M. 152
MacKeown, J.M. 892
Madruga, F.C. 171
Maeda, T. 606
Magalhães, A.C. 152, 158
Magalhães, M.F.d. 588
Magni, E. 885
Maia, E. 2
Maia, L.C. 651, 754
Maltz, M. 396
Manfredini, D. 256
Marchesan, M.A. 69, 529, 935
Marques, M.M. 922
Marquis, P.M. 186
Marshall Jr., G.W. 953
Marshall, S.J. 953
Martin, A.A. 745
Martin, G.P. 351
Masuda, Y. 130
Masuki, K. 993
Matin, K. 33
Matsumoto, K. 130
Mattei, G. 309
Matthews, N.S. 711
Mautner, M.C. 15
Mayworm, D. 703
McMillan, D.A. 726
McNab, R. 117
Meier, M.M. 618
Meireles, S.S. 878
Melchheier-Weskott, A. 816
Meng, Q.-F. 697
Mettes, T.G. 435
Meyer, M. 861
Michel, K. 816, 861
Miletic, V. 683
Mine, A. 767
Miyazaki, M. 606, 959
Mizrahi, B. 535
Mizumori, T. 984
Mohan, N. 21
Moharamzadeh, K. 331
Mokkink, H.G. 435
Moldoveanu, M. 600
Monteiro Jr., S. 2
Morita, M. 774
Morris, J. 857
Motter, P.J. 287, 444
Moysés, M.R. 326

Nagao, K. 965
Nakajima, M. 80, 228
Nakamura, Y. 130
Nakou, M. 600
Narayanan, T.S.N.S. 500
Naumann, M. 287, 444
Nayif, M.M. 228
Neoh, K.G. 1005
Neuhaus, K.W. 1033
Neves, A.d.A. 808
Newton, J.T. 343, 711
Nieri, M. 49
Nikaido, T. 33
Nishikiori, R. 993
Nomura, Y. 993

Nonomura, G. 953
Nothdurft, F.P. 287, 444
Nuas, S. 535
Nuttall, N.M. 857

O'Higgins, L. 711
Oda, M. 249
Ogliari, F.A. 171
Ohlmann, B. 87, 692
Okazaki, M. 993
Oliveira, C.A.G.R. 754
Ona, M. 463
Opdam, N.J.M. 828
Osorio, E. 163
Osorio, R. 163, 1068
Ounsi, H.F. 513
Özcan, M. 822
Özpinar, B. 780
Ozturk, N. 219

Pagot, M.A. 396
Paisley, C. 759
Palin, W.M. 186
Pan, S. 301
Pant, R. 456
Paolinelis, G. 214, 224
Parry, J. 117
Paschos, E. 1033
Pascon, F.M. 745
Pashley, D.H. 8, 178
Patel, S. 711
Patzlaff, R.T. 249
Pegoraro, M. 309
Pereira, L.J. 326
Petzhold, C.L. 171
Peumans, M. 847
Philpotts, C.J. 360
Pisani-Proenca, J. 163
Piva, E. 171
Plasschaert, A.J.M. 435
Pobbe, P.d.O.d.S. 935
Poitevin, A. 767
Polimeni, A. 885
Pons, A. 795
Poole, R.L. 488
Poolthong, S. 74
Pospiech, P.R. 287, 444
Pratsinis, S.E. 579
Pretty, I.A. 21
Puppin Rontani, R.M. 745
Puppin-Rontani, R.M. 833
Pustiglioni, F.E. 659

Qian, F. 178

Radford, D.R. 456
Rahiotis, C. 272
Rammelsberg, P. 87, 692
Rees, G.D. 117, 351
Rehmann, P. 508, 816
Reis, A. 249, 309, 618
Ribeiro, F.C. 69
Ribeiro, J.C.R. 326
Ribeiro, J.G.R. 326
Rice, A. 494
Rich, A.M. 343
Rikuta, A. 606
Rios, D. 152, 158
Risso, P.A. 928
Riutord, P. 795
Roberts, G.J. 481
Roberts, H.W. 873
Roda, M.I. 922
Rodrigues, F.P. 945
Roeters, F.J.M. 828
Rosentritt, M. 977, 1048
Rueggeberg, F.A. 418
Rushton, V.E. 472
Russo, D.S. 49

Sadig, W. 513
Salameh, Z. 513
Salmaso, L. 256
Salo, S. 27, 1074
Salz, U. 579
Sangkla, W. 392
Santini, A. 683
Santos Felippe, M.C. 672
Santos, I.S. 878
Sawajiri, M. 993
Sawase, T. 940
Schätzle, M. 125
Schimmoeller, B. 579
Schmidlin, P.R. 125
Schmitter, M. 87, 692
Schulz, H. 579
Schwarz, A. 360
Schwarz, S. 692
Scutt, A.M. 331
Seidel, E. 287, 444
Shen, Y.-W. 409
Sherriff, M. 427
Shigetani, Y. 402
Shim, J.-S. 1025
Shimamura, Y. 959
Shimizu, H. 138
Shimizu, Y. 130
Shortall, A.C.C. 488
Shortall, A.C. 186
Siavikis, G. 1048
Silikas, N. 63, 945
Silva, R.G. 935
Silva-Boghossian, C.M. 651
Silva-Sousa, Y.C. 520
Silva-Sousa, Y.T.C. 69, 529, 672, 935
Silvia, F. 565
Sinhoreti, M.A.C. 833
Sloten, J.V. 808
Smales, R.J. 697
Smith, A.J. 117
Sobrinho, L.C. 745, 833
Soeno, K. 940
Sossmeier, D. 249
Sousa-Neto, M.D.d. 520
Sousa-Neto, M.D. 69, 529, 935
Souza-Gabriel, A.E. 69, 935
Spitzmüller, B. 540
Stanislawczuk, R. 618
Stawarczyk, B. 316
Sterer, N. 535
Sun, X. 546
Suni, J. 27, 1074

Suzuki, K. 767
Suzuki, T. 463
Swain, M. 786
Swain, M.V. 915

Tagami, J. 33, 80, 228
Taguchi, T. 1041
Taira, Y. 595, 940
Takada, K. 984
Takahashi, Y. 138
Takamizawa, T. 606
Takano, T. 774
Takehara, J. 774
Takeshige, F. 143
Takubo, C. 959
Tantbirojn, D. 74
Tauler, P. 795
Tay, F.R. 8, 163, 178, 801, 1041
Teixeira, C.d.S. 520
Tengrungsun, T. 392
Tezvergil-Mutluay, A. 560
Thomason, J.M. 301
Thomson, W.M. 343
Thornhill, M.H. 331
Toledano, M. 163, 1068
Toman, M. 281
Tong, H. 907
Torkabadi, S. 80
Trost, D. 508
Tsubota, K. 606
Tsue, F. 138
Tu, M.-G. 409
Tur, J.A. 795
Türkün, M. 281, 780
Tyas, M.J. 1013

Uddin, M. 224
Usumez, A. 219

Vachiramon, V. 178
Vadini, M. 235
Vallittu, P.K. 560
van der Sanden, W.J.M. 435
Van Landuyt, K.L. 767, 847
Van Meerbeek, B. 767, 808, 847
Van Noort, R. 331
Van Oosterwyck, H. 808
Vandewalle, K.S. 873
Vano, M. 801
Vargas, M.A. 178
Varma, S. 294
Viapiana, R. 935
Vieira, L.C.C. 2
Vieira, R.S. 322
Vigneri, S. 268
Vougiouklakis, G. 272

Wakabayashi, N. 463
Waller, J.L. 418
Walmsley, A.D. 1, 488
Wang, Y. 261, 907
Wang, Z. 907
Watamoto, T. 984
Watanabe, L.G. 953
Watson, T.F. 214, 224
Watts, D.C. 63, 945
Weiss, E.I. 535
Wensing, M. 435
Westland, S. 21
Williams, D.M. 711
Williams, S. 915
Winn, E. 8
Witzel, E.A. 546
Wollin, S.D. 301
Woo, S.-T. 637
Wood, I. 759
Wöstmann, B. 15, 508, 816, 861
Wu, C.D. 900

Xia, Y. 450
Xie, H. 450
Xie, Q. 900
Xu, Z. 1005

Yamada, Y. 130
Yamaguchi, K. 606
Yang, J.-Y. 718
Yano, Y. 965
Yashiro, K. 984
Yatani, H. 984
Yip, K.H.-K. 697
Yoshida, T. 959
Yoshida, Y. 767
Youngson, C.C. 54, 554
Yu, B. 637, 840, 1054, 1061
Yu, H. 261

Zaman, M.A. 351
Zander-Grande, C. 618
Zazzeroni, S. 235
Zhang, F. 450
Zhang, L. 885, 999
Zhou, X. 369, 999
Zijp, J.R. 731
Zou, L. 999